

ARMOUR - LYTE

Polyurea Elastomer for Scenography

Product Description

ARMOUR - LYTE R is a resin system which, when combined with Armour - Lyte H produces a resilient, durable polyurea elastomer that has been used for scenography and costumery in movies and TV such as **Gladiator, Band of Brothers and Troy.**

ARMOUR - LYTE has an indicative Class 2 result for surface spread of flame under BS476 part 7.

ARMOUR - LYTE is available in basic colours as indicated, others by arrangement:

Dark Grey

Black

Neutral

In-mould paint can be used to achieve exact colours, with further finishing effects applied afterwards. With good release agent items can be demoulded in one minute.

Typical Applications

- Scenography
- Armour, weapons & other costumery reproduction
- Many Film & TV production applications

Processing

ARMOUR - LYTE is processed through specially designed dispensing equipment having accurate metering pumps for the two components. The components should be maintained at 40-60°C and mixed and sprayed by the appropriate equipment, on which Isothane technical staff can advise.

Ambient conditions should be suitable for PU processing, with particular emphasis on humidity is 90% or above or the substrate temperature is less than 3°C above the local dew point.



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INVESTOR IN PEOPLE



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Storage, Handling and Personal Protection

- **ARMOUR - LYTE** should be stored in dry conditions at a temperature 20 - 25°C.
- **ARMOUR - LYTE R** Resin has a shelf life of 6 months. Armour - Lyte H has a shelf life of 6 months if stored at 20 - 25°C.
- Opened, part used containers must be resealed immediately after use.

The recommendations in our Safety Data Sheet for this product must be followed at all times. More general information is included in our publication "A Guide to the Safe Handling of Polyurethane Chemicals" and in the following Technical Data Sheets which are available on request:-

- Decontamination of Isocyanates using Isothane Decontaminant.

Additional Information

ARMOUR - LYTE R resin may require some agitation before use, in order to effect redispersion of any pigment. Recirculation of both components from the barrel, through the machine's heater blocks and back to the barrel, is recommended when using standard 2:1 or 1:1 transfer pumps, in order to prime the materials and machine. 30 minutes of recirculation to warm the components to around 40°C will be adequate.

Post Curing: articles need not be post cured.

<u>Typical Properties of</u> <u>Armour - Lyte</u>	<u>Armour - Lyte R Resin</u>	<u>Armour - Lyte H</u>
Appearance	Dark Amber Liquid	Hazy Yellow Liquid
Viscosity 25°C	1200 cps	400 cps
Specific Gravity @ 25°C	1.0 - 1.10	1.08 - 1.12
Water Content	<0.01%	
Mixing Ratio:	100 parts Armour - Lyte R Resin: 100 parts Armour - Lyte H (by volume, mix tolerance $\pm 1\%$)	
Process:	Spray	

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<u>Armour - Lyte Properties</u>	<u>Units</u>	<u>Typical Values</u>	<u>Test Method</u>
Shore Hardness	° D	65	ASTM D2240
Density	g/cm ³	0.92 ± 0.3	
Tensile Strength	MPa	29	ASTM D638
Elongation	%	80	ASTM D638
Tear Strength	KN/m	95	ASTM D624, Die C

Reaction Profile

Gel Time	8 secs
Touch Dry	<30 secs
Cure	80% of maximum tensile strength is attained within 24 hrs at 20°C



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